PATENT Atty. Dkt. No. YOR920030507US1

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IN THE CLAIMS

1. - 35. (Cancelled)

36. (New) A method for optimizing an allocation of system resources, comprising:

determining, for each source from which a system receives job requests, a minimum percentage of job requests to be processed by the system, where the system receives job requests from at least two separate sources;

allocating system resources among the at least two separate sources to meet at least one job processing obligation and to maximize a total profit of the system; and

scheduling a processing order of new job requests on-line, wherein said scheduling is accomplished by:

determining a completion deadline for a new job request;

estimating a length of time needed to process the new job request by the completion deadline; and

scheduling a process time for the new job request based on the completion deadline and an estimated process time as compared to completion deadlines and estimated process times for existing jobs in the system;

routing the new job request to a server in the system that can complete processing for the new job request the soonest;

assigning the new job request to an end of a server's job queue;

determining whether an cumulative length of time necessary to process all jobs in the job queue, including the new job request, exceeds a longest completion deadline among all jobs in the job queue; and

temporarily stopping work on a job having a longest estimated processing time, if the cumulative length of time necessary to process all jobs in the job queue, including the new job request, exceeds a longest completion deadline among all jobs in the job queue.